

CLAIMS

What is claimed is:

1. A tablet core comprising at least about 95% of a aliphatic amine polymer.
2. The tablet core of Claim 1 wherein the aliphatic amine polymer is selected from the group consisting of unsubstituted and N-substituted poly(allylamine), poly(diallylamine), poly(vinylamine) and poly(ethyleneimine).
3. The tablet core of Claim 2 wherein the N-substituents are selected from the group consisting of substituted and unsubstituted C₁-C₂₄-alkyl groups.
4. The tablet core of Claim 3 wherein the alkyl substituents
5. The tablet core of Claim 1 wherein the aliphatic amine polymer is cross-linked.
6. The tablet core of Claim 1 further comprising one or more excipients.
7. A tablet core comprising at least about 95% linear or cross-linked poly(allylamine) or a pharmaceutically acceptable salt thereof.
8. The tablet core of Claim 7 wherein the poly(allylamine) is hydrated.
9. The tablet core of Claim 8 wherein the poly(allylamine) comprises from about 3% to about 10% water.
10. The tablet core of Claim 9 wherein the poly(allylamine) comprises from about 5% to about 8% water.

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11. The tablet core of Claim 10 wherein the polyallylamine is from about 1% to about 10% cross-linked.
12. A tablet core comprising at least about 95% by weight of hydrated cross-linked poly(allylamine hydrochloride).
- 5 13. The tablet core of claim 1 wherein said tablet further comprises a water-based coating.
14. The tablet core of claim 7 wherein said tablet further comprises a water-based coating.
- 10 15. The tablet core of claim 14 wherein said water-based coating comprises hydroxypropylmethylcellulose and a plasticizer.
16. The tablet core of claim 15 wherein said coating comprises hydroxypropyl methylcellulose low viscosity, hydroxypropylmethylcellulose high viscosity, and diacetylated monoglyceride.
17. The tablet core of claim 2 wherein said polymer is polydiallylamine.
- 15 18. The tablet core of claim 17 wherein said tablet further comprises a water-based coating.
19. A compressed tablet comprising an effective disintegrating amount of polyallylamine or a salt thereof with a pharmaceutically acceptable acid.

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20. The compressed tablet of Claim 19 wherein the polyallylamine or salt thereof is cross-linked.
21. The tablet of Claim 20 wherein the polyallylamine or salt thereof is cross-linked with epichlorohydrin.

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